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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/855,440	05/15/2001	Hirotaka Uchiyama	8084	9009	
27752 7	590 02/18/2004		EXAMINER		
	ER & GAMBLE COMP	JONES, DWAYNE C			
	IAL PROPERTY DIVISIO L TECHNICAL CENTER	ART UNIT	PAPER NUMBER		
6110 CENTER	HILL AVENUE	1614			
CINCINNATI	, OH 45224	DATE MAILED: 02/18/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	cation No.	Applicant(s)				
		09/8	55,440	UCHIYAMA E	UCHIYAMA ET AL.			
Office Action Summary		Exam	niner	Art Unit	,			
		Dway	ne C Jones	1614				
The N	MAILING DATE f this commun	ication appears of	n the cover sheet	with th correspondence	e address			
THE MAILIN  - Extensions of t after SIX (6) M  - If the period for - If NO period fo - Failure to reply Any reply recei	NED STATUTORY PERIOD FOR DATE OF THIS COMMUNI ime may be available under the provisions ONTHS from the mailing date of this common reply specified above is less than thirty (3) is specified above, the maximum star within the set or extended period for reply yed by the Office later than three months a term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In a unication. O) days, a reply within the atutory period will apply a will, by statute, cause the	no event, however, may e statutory minimum of t and will expire SIX (6) Mi e application to become	a reply be timely filed nirty (30) days will be considered DNTHS from the mailing date of ABANDONED (35 U.S.C. § 133	this communication.			
Status			•					
1)⊠ Respo	nsive to communication(s) file	d on <i>03DEC200</i> 3	3.					
·= ·	, ,	2b)⊠ This action						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of (	Claims							
4a) Of 5) ☐ Claim( 6) ☑ Claim( 7) ☐ Claim(	s) <u>1-52</u> is/are pending in the a the above claim(s) is/ar s) is/are allowed. s) <u>1-52</u> is/are rejected. s) is/are objected to. s) are subject to restrict	e withdrawn from						
Application Par	pers							
10) The dra Applica Replace	ecification is objected to by the awing(s) filed on is/are: int may not request that any objectement drawing sheet(s) including	a) accepted of accepted of accepted of accepted of accepted of the drawing the correction is re	(s) be held in abey equired if the drawir	ance. See 37 CFR 1.85(ang(s) is objected to. See 3	7 CFR 1.121(d).			
11) Ine oa	th or declaration is objected to	by the Examiner	. Note the attach	ed Office Action or forn	1 PTO-152.			
Priority under 3	5 U.S.C. § 119							
a)	viedgment is made of a claim to b) Some * c) None of: Certified copies of the priority of Certified copies of the priority of Copies of the certified copies of application from the Internation attached detailed Office action	documents have documents have of the priority doc nal Bureau (PCT	been received. been received in uments have bee Rule 17.2(a)).	Application No In received in this Natio				
Attachment(s)	veness Cited (DTO 202)		۵۱ □ امدادا	Summany (DTO 442)				
2) Notice of Draft 3) Information Di	rences Cited (PTO-892) tsperson's Patent Drawing Review (P sclosure Statement(s) (PTO-1449 or lail Date		Paper No	y Summary (PTO-413) b(s)/Mail Date f Informal Patent Application 	(PTO-152)			

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#### **DETAILED ACTION**

#### Status of Claims

- 1. Claims 1-52 are pending.
- 2. Claims 1-52 are rejected.

## Response to Arguments

- 3. Applicants' arguments filed December 3, 2003 have been fully considered but they are not persuasive. Applicants argue the ensuing points. First, applicants allege that Wilson et al. do not teach of a composition that contains a cyclodextrin (CD), a CD-compatible surfactant, and a CD-incompatible surfactant. Applicants next argue that there is motivation to combine the prior art references of Laughlin et al. of U.S. Patent No. 3,959,461 in view of Bailey et al. of U.S. Patent No. 3,929,678 in view of Bailey et al. of U.S. Patent No. 3,299,112 with Wilson et al. Third, applicants allege that there is no motivation to combine the prior art references of Wilson et al. in view of Laughlin et al. in view of Bailey et al. in view of Bailey et al. Fourth, applicants' argue that Laughlin is directed to a spectral displacement technique with phenolphthalein, which is no relevant to the instant invention. Fifth, applicants' purport that Trinh et al. only disclose of a composition of a CD and a surfactant, while the instant invention teaches of a composition comprised of a CD, a CD-compatible surfactant, and a CD-incompatible surfactant.
- 4. First, applicants allege that Wilson et al. do not teach of a composition that contains a cyclodextrin (CD), a CD-compatible surfactant, and a CD-incompatible

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surfactant. This argument regarding that Wilson et al. is not persuasive because Wilson et al. is not the sole prior art reference rejecting the instant claims. The rejection is rather Wilson et al. in view of Laughlin et al. of U.S. Patent No. 3,959,461 in view of Bailey et al. of U.S. Patent No. 3,929,678 in view of Bailey et al. of U.S. Patent No. 3,299,112, which does teach of a composition containing a CD, a CD incompatible surfactant, and a CD compatible surfactant. In fact, Wilson et al. teach of a composition, which contains cyclodextrin along with an anionic surfactant. Laughlin et al. teach of compositions, which contain ethoxylated zwitterionic surfactants and anionic surfactants and even cationic surfactants, while Bailey et al. teach of quaternary ammonium surfactants and Bailey et al. disclose of organosilicon surfactants.

5. Applicants next argue that there is motivation to combine the prior art references of Laughlin et al. of U.S. Patent No. 3,959,461 in view of Bailey et al. of U.S. Patent No. 3,929,678 in view of Bailey et al. of U.S. Patent No. 3,299,112 with Wilson et al. It is mentioned that the subsisting claims are composition claims with the incorporation of functional language. Accordingly, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the instant claims are composition claims, which require the presence three components (1) a functionally available CD, (2) a CD-incompatible surfactant, and (3) a

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CD-compatible surfactant. Accordingly, the outstanding rejection under 35 U.S.C. 103(a) as being unpatentable over Wilson et al. in view of Laughlin et al. in view of Bailey et al. in view of Bailey et al. In fact, these prior art references teach of the three instantly claimed components of a CD, a CD incompatible surfactant, and a CD compatible surfactant.

- 6. Fourth, applicants' argue that Laughlin is directed to a spectral displacement technique with phenolphthalein, which is no relevant to the instant invention. The prior art reference of Laughlin does teach of a detergent composition, which contain ethoxylated zwitterionic surfactants as well as cationic surfactants. Consequently, this reference is relevant to rendering the instant invention obvious over Wilson et al. in view of Laughlin et al. in view of Bailey et al. in view of Bailey et al. Moreover, the instant claims are open-ended. Applicant recites the word "comprising", which is open-claim language. It is held that "the word 'comprising' incorporates additional steps of procedures and does not exclude materials or processes not recited in the claim".
- 7. Fifth, applicants' purport that Trinh et al. only disclose of a composition of a CD and a surfactant, while the instant invention teaches of a composition comprised of a CD, a CD compatible surfactant, and a CD incompatible surfactant. The prior art reference of Trinh et al. specifically teach of a composition that is comprised of a CD with a surfactant. Trinh et al. additionally teach that the surfactant can be cationic, nonionic, amphoteric, zwitterionic, anionic polymeric, and even cationic polymeric, (see claims 1, 10, 11, and 13-15). Because the instant invention as well as Trinh et al.

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provide the examples of a CD compatible surfactant as tetronic surfactans and a CD incompatible surfactant as amphoteric surfactants and anionic surfactants, (see column 12 of Trinh et al.), the rejection of claims 1-52 over Trinh et al. is maintained.

## Claim Rejections - 35 USC § 103

- 8. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 10. The rejection of claims 1-52 under 35 U.S.C. 103(a) as being unpatentable over Wilson et al. in view of Laughlin et al. of U.S. Patent No. 3,959,461 in view of Bailey et al. of U.S. Patent No. 3,929,678 in view of Bailey et al. of U.S. Patent No. 3,299,112 is maintained and repeated for the above-stated and reasons of record. Wilson et al. teach of the well-known property that cyclodextrins demonstrate a remarkable complexation behavior with a wide variety of inorganic and organic inclusates, (see page 927). In addition, Wilson et al. teach of binding constants between the inclusates

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and the cyclodextrin. In fact, Wilson et al. further teach of binding constants between beta-cyclodextrin and fluorocarbon as well as anionic surfactants, (see pages 927 and 928). Bailey et al. teach of the quaternary ammonium surfactants, (see abstract and entire patent). Laughlin et al. teach of detergent compositions that contain ethoxylated zwitterionic surfactants and anionic surfactants and even cationic surfactants, (see entire patent). Bailey et al. teach of the surfactants of organosilicon, (see columns 1 and 2). Wilson et al. teach of a composition, which contains cyclodextrin along with an anionic surfactant. Laughlin et al. teach of compositions, which contain ethoxylated zwitterionic surfactants and anionic surfactants and even cationic surfactants, while Bailey et al. teach of quaternary ammonium surfactants and Bailey et al. disclose of organosilicon surfactants. Due to the fact that it is well known that cyclodextrins are used to encapsulate inclusates and because Wilson et al. do teach of a composition which contains beta-cyclodextrin and fluorocarbon as well as anionic surfactants, (see pages 927 and 928), it would have been well within the purview of the skilled artisan to include other surfactants in a composition which contains cyclodextrin. The skilled artisan would have been motivated to include other surfactants as an optimization in a cyclodextrin composition, especially when Wilson et al. teach of a composition between a beta-cyclodextrin and fluorocarbon as well as anionic surfactants, (see pages 927 and 928). In addition, the skilled artisan would have been motivated manufacture this CD composition because it is well known in the art that CDs are known in the art to encapsulate hydrophobic moieties. It is well within the level of the skilled artisan to use

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CDs to deliver hydrophobic substances as well as encapsulating hydrophobic moieties acting as a hydrophobic moiety scavenger.

11. Furthermore, applicants' claims recite the word "comprising", which is open-claim language. It is held "the word 'comprising" incorporates additional steps of procedures and does not exclude materials or processes not recited in the claim." see *Gould v. Mossinghoff, Comr. Pats.*, (DCDC 1982) 215 USPQ 310. For these reasons, Woo et al. does render the instant claims under the judicially created doctrine of obviousness-type double patenting as being unpatentable.

## Obviousness-type Double Patenting

12. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

13. The rejection of claims 1-52 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-21 of U.S. Patent No. 5,578,563 is maintained and repeated. Although the conflicting claims are not identical, they are not patentably distinct from each other because Trinh et al. do teach of a

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composition comprising CD with a surfactant. Trinh et al. further state that the surfactant can be a surfactant that is cationic, nonionic, amphoteric, zwitterionic, anionic polymeric, cationic polymeric, (see claims 1, 10, 11, and 13-15).

- 14. Claims 1-52 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-17 of Woo et al. of U.S. Patent No. 6,436,442. Although the conflicting claims are not identical, they are not patentably distinct from each other because both Woo et al. and the instant invention teach of methods of manufacturing CD composition along with a CD compatible surfactants and CD incompatible surfactants as well as compositions with these above-stated components.
- 15. Claims 1-52 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-59 of copending Application No. 09/855,816. Although the conflicting claims are not identical, they are not patentably distinct from each other because methods of manufacturing CD composition along with a CD compatible surfactants and CD incompatible surfactants as well as compositions with these above-stated components.
- 16. This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. C. Jones whose telephone number is (571) 272-0578. The examiner can normally be reached on Mondays, Tuesdays, Thursday, and

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Fridays from 8:30 am to 6:00 pm. The official fax No. for correspondence is (703) 872-9306.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marianne Seidel, may be reached at (571) 272-0584.

Tech Ctr 1614

February 13, 2004